Center Independent Research & Development: GSFC IRAD

Concept Development for Advanced Spaceborne Synthetic Aperture Radar

Completed Technology Project (2011 - 2013)

Project Introduction

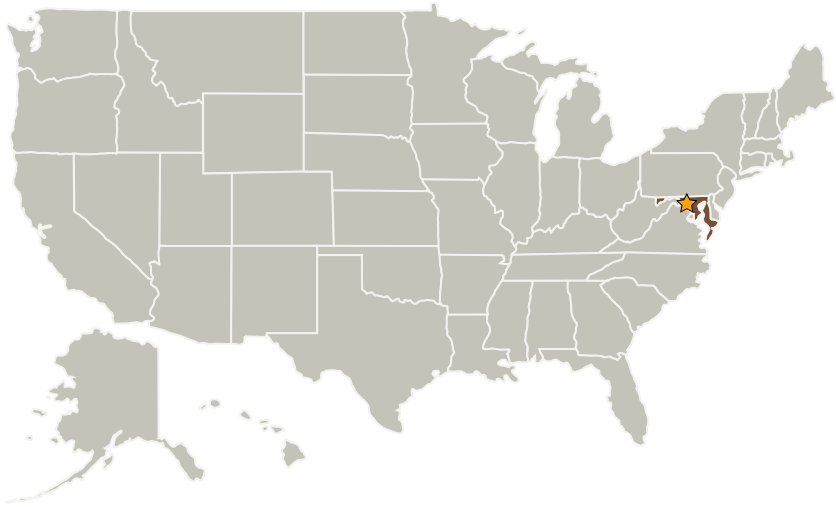
This work seeks to develop a novel instrument concept for an advanced spaceborne radar system that can measure terrestrial biomass, ecosystem structure and extent on a global scale.

The effort will focus on P-Band and L-band polarimetric radar architectures that employ advanced and innovative techniques to increase the science value of the measurements while achieving it at a lower cost.

Anticipated Benefits

N/A

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland

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Links

NTR 1
(no url provided)

Project Website:

http://sciences.gsfc.nasa.gov/sed/

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:

Peter M Hughes

Project Manager:

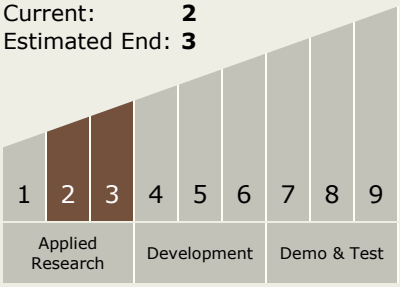
Terence A Doiron

Principal Investigator:

Rafael F Rincon

Technology Maturity (TRL)

Start: **2**
Current: **2**
Estimated End: **3**



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Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.2 Observatories